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1 [Maximum-Scoring Segment Sets](#)

Miklos Csuros

October 2004 IEEE/ ACM Transactions on Computational Biology and
Bioinformatics (TCBB), Volume 1 Issue 4

Publisher: IEEE Computer Society Press

Full text available: [pdf \(963.08 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 43, Citation Count: 0

We examine the problem of finding maximum-scoring sets of disjoint segments in a sequence of scores. The problem arises in DNA and protein segmentation and in postprocessing of sequence alignments. Our key result states a simple recursive relationship ...

Keywords: Segmentation, change point estimation, noncoding RNA, thermophiles.

2 Video abstraction: A systematic review and classification



Ba Tu Truong, Svetha Venkatesh

February ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP), Volume 3 Issue 1

Publisher: ACM

Full text available: pdf(380.77 KB)

Additional Information: [full citation](#), [appendices and supplements](#),

[abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 76, Downloads (12 Months): 693, Citation Count: 0

The demand for various multimedia applications is rapidly increasing due to the recent advance in the computing and network infrastructure, together with the widespread use of digital video technology. Among the key elements for the success of these ...

Keywords: Video summarization, keyframe, survey, video abstraction, video skimming

3 Building efficient and effective multimedia fingerprints via joint coding and embedding



Shan He, Min Wu

August MM&Sec '05: Proceedings of the 7th workshop on Multimedia and security 2005

Publisher: ACM

Full text available: pdf(594.32 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 50, Citation Count: 0

Digital fingerprinting protects multimedia content from illegal redistribution by uniquely marking every copy of the content distributed to each user. One major category of collusion-resistant fingerprinting employs an explicit step of coding. Most existing ...

Keywords: collusion resistance, error correcting code, multimedia fingerprinting

4 Integrating geometrical and linguistic analysis for email signature block parsing



Hao Chen, Jianying Hu, Richard W. Sproat

October ACM Transactions on Information Systems (TOIS), Volume 17 Issue 4 1999

Publisher: ACM

Full text available: pdf(192.29 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

[index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 69, Citation Count: 3

The signature block is a common structured component found in email messages. Accurate identification and analysis of signature blocks is important in many multimedia messaging and information retrieval applications such as email text-to-speech rendering, ...

Keywords: email signature block, finite-state transducer, geometrical analysis, linguistic analysis, text-to-speech rendering

5 [Re-cinematography: improving the camera dynamics of casual video](#)



Michael L. Gleicher, Feng Liu

September 2007 MULTIMEDIA '07: Proceedings of the 15th international conference on Multimedia

Publisher: ACM

Full text available: pdf(5.64 MB) mov(56.49 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 72, Downloads (12 Months): 313, Citation Count: 0

This paper presents an approach to post-processing casually captured videos to improve apparent camera movement. *Re-cinematography* transforms each frame of a video such that the video better follows cinematic conventions. The approach breaks videos ...

Keywords: casual video, cinematography, image stabilization

6 [Multimedia edges: finding hierarchy in all dimensions](#)



Malcolm Slaney, Dulce Ponceleon, James Kaufman

October 2001 MULTIMEDIA '01: Proceedings of the ninth ACM international conference on Multimedia

Publisher: ACM

Full text available: pdf(6.41 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 37, Citation Count: 4

This paper describes a new unified representation for the information in a video. We reduce the dimensionality of the signal with either a singular-value decomposition (on the semantic and image data) or mel-frequency cepstral coefficients (on the audio ...


Keywords: audio, automatic segmentation, color space, hierarchy, images, latent semantic indexing, multimedia, video, scale space, semantic space, singular-value decomposition, temporal properties

7 Motion templates for automatic classification and retrieval of motion capture data

Meinard Müller, Tido Röder

September SCA '06: Proceedings of the 2006 ACM SIGGRAPH/Eurographics
2006 symposium on Computer animation

Publisher: Eurographics Association

Full text available:  pdf(693.44
KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 106, Citation Count: 0

This paper presents new methods for automatic classification and retrieval of motion capture data facilitating the identification of logically related motions scattered in some database. As the main ingredient, we introduce the concept of motion templates ...


8 On-line video skimming based on histogram similarity



Victor Valdés, José M. Martínez

September TVS '07: Proceedings of the international workshop on TRECVID video
2007 summarization

Publisher: ACM

Full text available:  pdf(1.49
MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 98, Citation Count: 0

This paper describes the method proposed for the TRECVID 2007 BBC rushes summarization task. Such method has been developed starting from an on-line summary generation approach which provides a fast way to generate a base summary that can be later reduced ...

Keywords: BBC rushes, TRECVID 2007, on-line processing, video skims, video summarization


9 An efficient search algorithm for motion data using weighted PCA



K. Forbes, E. Fiume

July SCA '05: Proceedings of the 2005 ACM SIGGRAPH/Eurographics symposium on
2005 Computer animation

Publisher: ACM

Full text available:  pdf(2.90
MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 119, Citation Count: 6

Good motion data is costly to create. Such an expense often makes the reuse of motion data through transformation and retargeting a more attractive option than creating new motion from scratch. Reuse requires the ability to search automatically and ...

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